

# ABSTRACT

An R-Fe-B permanent magnet wherein R is Nd or a  
5 combination of Nd with a rare earth element is prepared by  
casting an R-Fe-B alloy, crushing the alloy in an oxygen-  
free atmosphere of argon, nitrogen or vacuum, effecting  
comminution, compaction, sintering, aging, and cutting  
and/or polishing the magnet to give a finished surface. The  
10 magnet is then heat treated in an argon, nitrogen or low-  
pressure vacuum atmosphere having a limited oxygen partial  
pressure, obtaining a highly oil resistant sintered  
permanent magnet having corrosion resistance and hydrogen  
barrier property even in a high pressure hot environment of  
15 refrigerant and/or lubricant as encountered in compressors.